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2x2 RGB Click

PID: MIKROE-5917

2x2 RGB Click is a compact add-on board that contains a matrix of 4 "intelligent" RGB elements, forming a 2x2 display screen. This board features the KTD2052A, a 12-channel RGB LED driver from Kinetic Technologies. It is a fully programmable current regulator for up to four RGB LEDs (12 LEDs in total). The LED matrix consists of four LRTB GFTG, a 6-lead in-line MULTILEDs, from ams OSRAM. The LEDs have a 120-degree viewing angle. This Click board™ makes the perfect solution for the development of AI smart speakers, Bluetooth/Wi-Fi loudspeakers, automotive indicators and ambiance lighting, IoT, gaming, consumer electronics, and more.

2x2 RGB Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets 2x2 RGB Click apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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Specifications

Type	LED Matrix
Applications	Can be used for the development of AI smart speakers, Bluetooth/Wi-Fi loudspeakers, automotive indicators and ambiance lighting, IoT, gaming, consumer electronics, and more
On-board modules	KTD2052A - 12-channel RGB LED driver from Kinetic Technologies
Key Features	The driver can drive up to 12 LEDs (4RGB LEDs), multiplexed LED current driver outputs, 14 million colors, 12 independent exponential fade engines, a flexible pattern generator with watchdog, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

ClickID

Downloads

2x2 RGB click example on Libstock

2x2 RGB click 2D and 3D files

LRTB GFTG datasheet

2x2 RGB click schematic

KTD2052 datasheet

Mikroe produces entire development toolchains for all major microcontroller architectures.
Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.

ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.

ISO 9001: 2015 certification of quality management system (QMS).